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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,076	06/25/2003	Pat PAGE	49919.1	1075
22828	7590 12/28/2005		EXAMINER	
EDWARD YOO C/O BENNETT JONES			GRIFFIN, WALTER DEAN	
1000 ATCO C 10035 - 105 S			ART UNIT	PAPER NUMBER
EDMONTON, ALBERTA, AB T5J3T2			1764	
CANADA			DATE MAILED: 12/28/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

				12)			
		Application No.	Applicant(s)	•			
Office Action Summary		10/604,076	PAGE ET AL.				
		Examiner	Art Unit				
		Walter D. Griffin	1764				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence address				
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) MO cause the application to become	IICATION.  a reply be timely filed  DNTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).	·			
Status							
1)⊠	Responsive to communication(s) filed on 25 Ju	<u>ine 2003</u> .					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)	, , , , , , , , , , , , , , , , , , , ,						
•	closed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Dispositi	on of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-13</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  Claim(s) is/are allowed.  Claim(s) <u>1-10</u> is/are rejected.  Claim(s) <u>11-13</u> is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.					
Applicati	on Papers						
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex	epted or b) objected to drawing(s) be held in abeys ion is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d)	).			
Priority u	ınder 35 U.S.C. § 119						
12) <u></u> a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior  `application from the International Bureau  See the attached detailed Office action for a list of	s have been received. s have been received in ity documents have bee (PCT Rule 17.2(a)).	Application No n received in this National Stage				
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 091703,092603.	Paper No	Summary (PTO-413) b(s)/Mail Date Informal Patent Application (PTO-152)				

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### **DETAILED ACTION**

#### Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because it does not contain signatures for each of the inventors.

## Claim Objections

Claims 11-13 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 7, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 9-20698.

The JP reference discloses a process in which a low-grade coal is mixed with an oxidizing agent such as hydrogen peroxide in the presence of a solvent such as water. Following

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the mixing, the solids are separated from the liquid and the liquid is recovered. See English language abstract and paragraphs [0025]-[0027]. The recovered liquid would necessarily have similar characteristics to the claimed surfactant.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3-6, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 9-20698.

The JP reference discloses a process in which a low-grade coal is mixed with an oxidizing agent such as hydrogen peroxide in the presence of a solvent such as water. Following the mixing, the solids are separated from the liquid and the liquid is recovered. See English language abstract and paragraphs [0025]-[0027]. The recovered liquid would necessarily have similar characteristics to the claimed surfactant.

The JP reference does not disclose the use of lignite and does not disclose the concentration of hydrogen peroxide or the volume ratio in the mixture. It also does not disclose the time for mixing as claimed.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process and composition of the JP reference by using lignite because lignite is a low-grade coal as required by the JP reference and therefore would be expected to be effectively treated by the JP process to produce the recovered liquid.

It also would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of the JP reference by using concentrations and amounts as claimed and mixing times as claimed because one would adjust amounts and times to provide for the most efficient production of the liquid product.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter D. Griffin whose telephone number is (571) 272-1447. The examiner can normally be reached on M-F 6:30 to 4:00 with alternate Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Walter D. Griffin Primary Examiner Art Unit 1764

WG December 16, 2005